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[0525] <u>CLAIMS</u>

1. A device for generating and dispensing a foam for therapeutic use comprises:

5 (g) a housing;

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- the housing comprising a first chamber of adjustable volume comprising gas at substantially atmospheric pressure or greater;
- the housing further comprising a second chamber of adjustable volume comprising a solution comprising at least one sclerosant agent;
- (j) an outlet for dispensing the gas and the solution in the form of a foam and a flow path communicating between the outlet and the first and second chambers;
- (k) the flow path comprising a region in which mixing of the gas and the solution takes place;
 - (I) a foaming unit located downstream of the mixing region, the foaming unit comprising holes with a dimension transverse to the flow direction of between 0.1 and 100 micron.
- 2. The device of claim 1 wherein the gas is at least 70% by volume 20 oxygen.
 - 3. The device of claim 1, wherein the gas is at least 90% oxygen.
 - 4. The device of claim 1, wherein the gas is at least 99% oxygen.
 - 5. The device of claim 1, wherein the gas is substantially 100% oxygen.
- 25 6. The device of claim 1 wherein the gas is at least 70% by volume carbon dioxide.
 - 7. The device of claim 1, wherein the gas is at least 90% carbon dioxide.
- 8. The device of claim 1, wherein the gas is at least 99% carbon dioxide.
 - 9. The device of claim 1, wherein the gas is substantially 100% carbon dioxide.
 - 10. The device of claim 1, wherein a source of motive power is provided to adjust the volume of one or both of the said chambers.

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11. The device of claim 1, wherein the housing is a syringe having twin plungers.

- 12. The device of claim 1, wherein the cross sectional area of the first and second chambers are in a ratio of between 20:1 and 2:1.
- 5 13. The device of claim 13, wherein the cross sectional area of the first and second chambers are in a ratio of between 20:1 and 2:1.
 - 14. The device of claim 1, wherein the housing is a flexible bag.
 - 15. The device of claim 1, wherein the gas is chosen from oxygen, carbon dioxide and mixtures thereof.
- 16. The device of claim 1, wherein the solution further comprises at least one viscosity enhancing agent.
 - 17. The device of claim 16, wherein the at least one viscosity enhancing agent is present in the amount of 20% vol/vol.
- 18. The device of claim 17, wherein the at least one viscosity enhancing agent is chosen from glycerol and PVP.
 - 19. The device of claim 18, wherein the at least one viscosity enhancing agent is chosen from glycerol.
 - 20. The device of claim 1, wherein the at least one sclerosing agent is chosen from polidocanol, glycerol and sodium tetradecyl sulphate.
- 20 21. The device of claim 1, wherein the at least one sclerosing agent is polidocanol.
 - 22. The device of claim 1, wherein the polidocanol is present in a concentration ranging from 0.5 to 4% vol/vol in the solution.
- 23. The device of claim 1, wherein the foam has a density less than 0.25 g/cm and half life of greater than 100 secs.